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RAW SEQUENCE LISTING

DATE: 01/07/2003

PATENT APPLICATION: US/09/829,922

TIME: 14:32:10

Input Set : N:\CrF3\RULE60\09829922.RAW.txt

Output Set: N:\CRF4\01072003\I829922.raw

1 <110> APPLICANT: Halazonetis, Thanos
 2 Hartwig, Wolfgang
 3 <120> TITLE OF INVENTION: Peptides and peptidomimetics with
 4 structural similarity to human p53 that activate p53
 5 function
 6 <130> FILE REFERENCE: 2973.19998
 7 <140> CURRENT APPLICATION NUMBER: 09/829,922
 8 <141> CURRENT FILING DATE: 2001-04-11
 10 <150> PRIOR APPLICATION NUMBER: US/08/894,327
 11 <151> PRIOR FILING DATE: 1997-12-04
 13 <150> PRIOR APPLICATION NUMBER: pctus96/01535
 14 <151> PRIOR FILING DATE: 1996-02-16
 15 <150> PRIOR APPLICATION NUMBER: 08/392,542
 16 <151> PRIOR FILING DATE: 1995-02-16
 17 <160> NUMBER OF SEQ ID NOS: 35
 18 <170> SOFTWARE: FastSEQ for Windows Version 3.0
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 1317
 22 <212> TYPE: DNA
 23 <213> ORGANISM: Homo sapiens
 24 <400> SEQUENCE: 1

25	gtctagagcc accgtccagg gagcaggtag ctgctgggct ccggggacac tttgcgttcg	60
26	ggctgggagc gtgctttcca cgacggtgac acgcttcctt ggattggcag ccagactgcc	120
27	ttccgggtca ctgccatgga ggagccgcag tcagatccta gcgtcgagcc ccctctgagt	180
28	caggaaacat tttcagacct atggaaacta cttcctgaaa acaacgttct gtcccccttg	240
29	ccgtcccaag caatggatga ttgatgctg tccccggacg atattgaaca atggttcact	300
30	gaagacccag gtccagatga agctcccaga atgccagagg ctgctcccc cgtggccccct	360
31	gcaccagcag ctccctacacc ggcgggccctt gcaccagccc cctcctggcc cctgtcatct	420
32	tctgtccctt cccagaaaac ctaccagggc agctacggtt tccgtctggg cttcttgcat	480
33	tctgggacag ccaagtctgt gacttgcaag tactcccctg ccctcaacaa gatgttttgc	540
34	caactggcca agacctgccc tgtgcagctg tgggttgatt ccacaccccc gcccggcacc	600
35	cgcgtccgcg ccatggccat ctacaagcag tcacagcaca tgacggaggt tgtgaggcgc	660
36	tgccccacc atgagcgctg ctcatagatg gatggtctgg cccctcctca gcattctatc	720
37	cgagtggaag gaaatttgcg tgtggagtat ttggatgaca gaaacacttt tcgacatagt	780
38	gtggtggtgc cctatgagcc gcctgaggtt ggctctgact gtaccaccat ccactacaac	840
39	tacatgtgta acagtctctg catgggcggc atgaaccgga ggcccatcct caccatcatc	900
40	acactggaag actccagtgg taatctactg ggacggaaca gctttgaggt gcgtgtttgt	960
41	gcctgtcctg ggagagaccg gcgcacagag gaagagaatc tccgcaagaa aggggagcct	1020
42	caccacgagc tgccccagag gagcactaag cgagcactgc ccaacaacac cagctcctct	1080
43	ccccagccaa agaagaaacc actggatgga gaatatttca cccttcagat ccgtgggcgt	1140
44	gagcgcttcg agatgttccg agagctgaat gaggccttgg aactcaagga tgcccaggct	1200
45	gggaaggagc caggggggag cagggctcac tccagccacc tgaagtccaa aaagggtcag	1260
46	tctacctccc gccataaaaa actcatgttc aagacagaag ggcctgactc agactga	1317

ENTERED

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Input Set : N:\CrF3\RULE60\09829922.RAW.txt

Output Set: N:\CRF4\01072003\I829922.raw

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48 <210> SEQ ID NO: 2
49 <211> LENGTH: 393
50 <212> TYPE: PRT
51 <213> ORGANISM: Homo sapiens
52 <400> SEQUENCE: 2
53   Met Glu Glu Pro Gln Ser Asp Pro Ser Val Glu Pro Pro Leu Ser Gln
54     1             5             10             15
55   Glu Thr Phe Ser Asp Leu Trp Lys Leu Leu Pro Glu Asn Asn Val Leu
56             20             25             30
57   Ser Pro Leu Pro Ser Gln Ala Met Asp Asp Leu Met Leu Ser Pro Asp
58             35             40             45
59   Asp Ile Glu Gln Trp Phe Thr Glu Asp Pro Gly Pro Asp Glu Ala Pro
60             50             55             60
61   Arg Met Pro Glu Ala Ala Pro Pro Val Ala Pro Ala Pro Ala Ala Pro
62             65             70             75             80
63   Thr Pro Ala Ala Pro Ala Pro Ala Pro Ser Trp Pro Leu Ser Ser Ser
64             85             90             95
65   Val Pro Ser Gln Lys Thr Tyr Gln Gly Ser Tyr Gly Phe Arg Leu Gly
66             100            105            110
67   Phe Leu His Ser Gly Thr Ala Lys Ser Val Thr Cys Thr Tyr Ser Pro
68             115            120            125
69   Ala Leu Asn Lys Met Phe Cys Gln Leu Ala Lys Thr Cys Pro Val Gln
70             130            135            140
71   Leu Trp Val Asp Ser Thr Pro Pro Pro Gly Thr Arg Val Arg Ala Met
72             145            150            155            160
73   Ala Ile Tyr Lys Gln Ser Gln His Met Thr Glu Val Val Arg Arg Cys
74             165            170            175
75   Pro His His Glu Arg Cys Ser Asp Ser Asp Gly Leu Ala Pro Pro Gln
76             180            185            190
77   His Leu Ile Arg Val Glu Gly Asn Leu Arg Val Glu Tyr Leu Asp Asp
78             195            200            205
79   Arg Asn Thr Phe Arg His Ser Val Val Val Pro Tyr Glu Pro Pro Glu
80             210            215            220
81   Val Gly Ser Asp Cys Thr Thr Ile His Tyr Asn Tyr Met Cys Asn Ser
82             225            230            235            240
83   Ser Cys Met Gly Gly Met Asn Arg Arg Pro Ile Leu Thr Ile Ile Thr
84             245            250            255
85   Leu Glu Asp Ser Ser Gly Asn Leu Leu Gly Arg Asn Ser Phe Glu Val
86             260            265            270
87   Arg Val Cys Ala Cys Pro Gly Arg Asp Arg Arg Thr Glu Glu Glu Asn
88             275            280            285
89   Leu Arg Lys Lys Gly Glu Pro His His Glu Leu Pro Pro Gly Ser Thr
90             290            295            300
91   Lys Arg Ala Leu Pro Asn Asn Thr Ser Ser Ser Pro Gln Pro Lys Lys
92             305            310            315            320
93   Lys Pro Leu Asp Gly Glu Tyr Phe Thr Leu Gln Ile Arg Gly Arg Glu
94             325            330            335
95   Arg Phe Glu Met Phe Arg Glu Leu Asn Glu Ala Leu Glu Leu Lys Asp
96             340            345            350

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Output Set: N:\CRF4\01072003\I829922.raw

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97      Ala Gln Ala Gly Lys Glu Pro Gly Gly Ser Arg Ala His Ser Ser His
98          355                      360                      365
99      Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser Arg His Lys Lys Leu Met
100          370                      375                      380
101      Phe Lys Thr Glu Gly Pro Asp Ser Asp
102          385                      390
104 <210> SEQ ID NO: 3
105 <211> LENGTH: 390
106 <212> TYPE: PRT
107 <213> ORGANISM: Mus spretus
108 <400> SEQUENCE: 3
109      Met Thr Ala Met Glu Glu Ser Gln Ser Asp Ile Ser Leu Glu Leu Pro
110          1                      5                      10                      15
111      Leu Ser Gln Glu Thr Phe Ser Gly Leu Trp Lys Leu Leu Pro Pro Glu
112          20                      25                      30
113      Asp Ile Leu Pro Ser Pro His Cys Met Asp Asp Leu Leu Leu Pro Gln
114          35                      40                      45
115      Asp Val Glu Glu Phe Phe Glu Gly Pro Ser Glu Ala Leu Arg Val Ser
116          50                      55                      60
117      Gly Ala Pro Ala Ala Gln Asp Pro Val Thr Glu Thr Pro Gly Pro Val
118          65                      70                      75                      80
119      Ala Pro Ala Pro Ala Thr Pro Trp Pro Leu Ser Ser Phe Val Pro Ser
120          85                      90                      95
121      Gln Lys Thr Tyr Gln Gly Asn Tyr Gly Phe His Leu Gly Phe Leu Gln
122          100                     105                     110
123      Ser Gly Thr Ala Lys Ser Val Met Cys Thr Tyr Ser Pro Pro Leu Asn
124          115                     120                     125
125      Lys Leu Phe Cys Gln Leu Val Lys Thr Cys Pro Val Gln Leu Trp Val
126          130                     135                     140
127      Ser Ala Thr Pro Pro Ala Gly Ser Arg Val Arg Ala Met Ala Ile Tyr
128          145                     150                     155                     160
129      Lys Lys Ser Gln His Met Thr Glu Val Val Arg Arg Cys Pro His His
130          165                     170                     175
131      Glu Arg Cys Ser Asp Gly Asp Gly Leu Ala Pro Pro Gln His Leu Ile
132          180                     185                     190
133      Arg Val Glu Gly Asn Leu Tyr Pro Glu Tyr Leu Glu Asp Arg Gln Thr
134          195                     200                     205
135      Phe Arg His Ser Val Val Val Pro Tyr Glu Pro Pro Glu Ala Gly Ser
136          210                     215                     220
137      Glu Tyr Thr Thr Ile His Tyr Lys Tyr Met Cys Asn Ser Ser Cys Met
138          225                     230                     235                     240
139      Gly Gly Met Asn Arg Arg Pro Ile Leu Thr Ile Ile Thr Leu Glu Asp
140          245                     250                     255
141      Ser Ser Gly Asn Leu Leu Gly Arg Asp Ser Phe Glu Val Arg Val Cys
142          260                     265                     270
143      Ala Cys Pro Gly Arg Asp Arg Arg Thr Glu Glu Glu Asn Phe Arg Lys
144          275                     280                     285
145      Lys Glu Val Leu Cys Pro Glu Leu Pro Pro Gly Ser Ala Lys Arg Ala
146          290                     295                     300

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RAW SEQUENCE LISTING

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Output Set: N:\CRF4\01072003\I829922.raw

```

147      Leu Pro Thr Cys Thr Ser Ala Ser Pro Pro Gln Lys Lys Lys Pro Leu
148      305                               310           315           320
149      Asp Gly Glu Tyr Phe Thr Leu Lys Ile Arg Gly Arg Lys Arg Phe Glu
150                               325           330           335
151      Met Phe Arg Glu Leu Asn Glu Ala Leu Glu Leu Lys Asp Ala His Ala
152                               340           345           350
153      Thr Glu Glu Ser Gly Asp Ser Arg Ala His Ser Ser Tyr Leu Lys Thr
154                               355           360           365
155      Lys Lys Gly Gln Ser Thr Ser Arg His Lys Lys Thr Met Val Lys Lys
156      370                               375           380
157      Val Gly Pro Asp Ser Asp
158      385                               390
160 <210> SEQ ID NO: 4
161 <211> LENGTH: 11
162 <212> TYPE: PRT
163 <213> ORGANISM: Homo sapiens
164 <400> SEQUENCE: 4
165      Arg Ala His Ser Ser His Leu Lys Ser Lys Lys
166      1                               5           10
168 <210> SEQ ID NO: 5
169 <211> LENGTH: 13
170 <212> TYPE: PRT
171 <213> ORGANISM: Homo sapiens
172 <400> SEQUENCE: 5
173      His Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser Arg His
174      1                               5           10
176 <210> SEQ ID NO: 6
177 <211> LENGTH: 11
178 <212> TYPE: PRT
179 <213> ORGANISM: Homo sapiens
180 <400> SEQUENCE: 6
181      Lys Gly Gln Ser Thr Ser Arg His Lys Lys Leu
182      1                               5           10
184 <210> SEQ ID NO: 7
185 <211> LENGTH: 13
186 <212> TYPE: PRT
187 <213> ORGANISM: Homo sapiens
188 <400> SEQUENCE: 7
189      Ser Lys Lys Gly Gln Ser Thr Ser Arg His Lys Lys Leu
190      1                               5           10
192 <210> SEQ ID NO: 8
193 <211> LENGTH: 20
194 <212> TYPE: PRT
195 <213> ORGANISM: Homo sapiens
196 <400> SEQUENCE: 8
197      Arg Ala His Ser Ser His Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser
198      1                               5           10           15
199      Arg His Lys Lys
200                               20

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RAW SEQUENCE LISTING

DATE: 01/07/2003

PATENT APPLICATION: US/09/829,922

TIME: 14:32:10

Input Set : N:\Crf3\RULE60\09829922.RAW.txt

Output Set: N:\CRF4\01072003\I829922.raw

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202 <210> SEQ ID NO: 9
203 <211> LENGTH: 20
204 <212> TYPE: PRT
205 <213> ORGANISM: Homo sapiens
206 <400> SEQUENCE: 9
207     Ser His Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser Arg His Lys Lys
208         1             5             10             15
209     Leu Met Phe Lys
210             20
212 <210> SEQ ID NO: 10
213 <211> LENGTH: 24
214 <212> TYPE: PRT
215 <213> ORGANISM: Homo sapiens
216 <400> SEQUENCE: 10
217     Arg Ala His Ser Ser His Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser
218         1             5             10             15
219     Arg His Lys Lys Leu Met Phe Lys
220             20
222 <210> SEQ ID NO: 11
223 <211> LENGTH: 25
224 <212> TYPE: PRT
225 <213> ORGANISM: Homo sapiens
226 <400> SEQUENCE: 11
227     Ser Arg Ala His Ser Ser His Leu Lys Ser Lys Lys Gly Gln Ser Thr
228         1             5             10             15
229     Ser Arg His Lys Lys Leu Met Phe Lys
230             20             25
232 <210> SEQ ID NO: 12
233 <211> LENGTH: 27
234 <212> TYPE: PRT
235 <213> ORGANISM: Homo sapiens
236 <400> SEQUENCE: 12
237     Gly Gly Ser Arg Ala His Ser Ser His Leu Lys Ser Lys Lys Gly Gln
238         1             5             10             15
239     Ser Thr Ser Arg His Lys Lys Leu Met Phe Lys
240             20             25
242 <210> SEQ ID NO: 13
243 <211> LENGTH: 11
244 <212> TYPE: PRT
245 <213> ORGANISM: Artificial Sequence
246 <220> FEATURE:
247 <223> OTHER INFORMATION: Synthetic, modified from Homo sapiens p53
248 <400> SEQUENCE: 13
249     Lys Lys Ser Lys Leu His Ser Ser His Ala Arg
250         1             5             10
252 <210> SEQ ID NO: 14
253 <211> LENGTH: 8
254 <212> TYPE: PRT
255 <213> ORGANISM: Homo sapiens

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/829,922

DATE: 01/07/2003

TIME: 14:32:11

Input Set : N:\Crf3\RULE60\09829922.RAW.txt

Output Set: N:\CRF4\01072003\I829922.raw